## **Volgamid**<sup>®</sup> B1G0



## **PA6-GF50**

50% glass fiber reinforced

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Mechanical properties	Typical data (dry)	Unit	Test method
Stress at break	225	MPa	ISO 527
Strain at break	3,0	%	ISO 527
Flexural strength	320	MPa	ISO 178
Flexural modulus	13600	MPa	ISO 178
Charpy Impact strength (+23°C)	100	kJ/m <sup>2</sup>	ISO 179
Charpy notched Impact strength (+23°C)	20	kJ/m <sup>2</sup>	ISO 179
Thermal properties	Typical data	Unit	Test method
		2.0	
Melting temperature, 10°C/min	220	°C	ISO 11357
Temp. of deflection under load (1.80 MPa)	210	°C	ISO 75
Other	Typical data	Unit	Test method
	Typical data	Unit	Test method
Humidity absorption	1.5	%	ISO 62
	1.5 10 <sup>12</sup>	% Ω	
Humidity absorption	1.5	%	ISO 62
Humidity absorption Surface resistivity	1.5 10 <sup>12</sup>	% Ω	ISO 62 IEC 60093
Humidity absorption Surface resistivity Mold shrinkage Density	1.5 10 <sup>12</sup> 0.1/0.4	% Ω %	ISO 62 IEC 60093 ISO 294-4
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Humidity absorption Surface resistivity Mold shrinkage Density  Recommendations for Injection molding	1.5 10 <sup>12</sup> 0.1/0.4 1560	% Ω % kg/cm³	ISO 62 IEC 60093 ISO 294-4
Humidity absorption Surface resistivity Mold shrinkage Density  Recommendations for Injection molding Injection molding temperature	1.5 10 <sup>12</sup> 0.1/0.4 1560	% Ω % kg/cm³ °C	ISO 62 IEC 60093 ISO 294-4
Humidity absorption Surface resistivity Mold shrinkage Density  Recommendations for Injection molding Injection molding temperature Mold temperature	1.5 10 <sup>12</sup> 0.1/0.4 1560 260-290 50-80	% Ω % kg/cm³ °C °C	ISO 62 IEC 60093 ISO 294-4
Humidity absorption Surface resistivity Mold shrinkage Density  Recommendations for Injection molding Injection molding temperature Mold temperature Drying temperature	1.5 10 <sup>12</sup> 0.1/0.4 1560 260-290 50-80 80	% Ω % kg/cm³ °C °C °C	ISO 62 IEC 60093 ISO 294-4

## **Characteristics**

Designed for the production of injection molding of various products and parts in the automotive, machinery, household appliances and other industries

Disclaimer: Unless specified to the contrary, the value given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum value. Kindly note that, under certain conditions, the properties can be affected to a considerable extent by the design of the mold/die, the processing conditions and the coloring.

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